

ISOFLEX TEL 3000 ALTEMP

Sliding grease with emergency lubricating properties



Your benefits at a glance

- Synthetic product for low friction and starting torque
- Longer component lifetime with optimised wear protection
- Good corrosion protection preventing premature component failure
- Low internal friction of the lubricant for low internally generated heat in the bearing and increased service life

Your requirements – our solution

Operators of precision-engineering and textile industry applications often have different requirements than in other industries. Precision engineering often requires greases with low friction coefficients and starting torques that provide emergency lubrication. Good low-temperature characteristics are also a frequent requirement.

We developed the sliding grease ISOFLEX TEL 3000 ALTEMP for these applications.

ISOFLEX TEL 3000 ALTEMP is a light-coloured, dynamically light high-performance grease for friction points in the textile industry and precision-engineering applications. It is based on ester oil, mineral oil, lithium soap and the special friction-reducing combination of solid lubricants.

ISOFLEX TEL 3000 ALTEMP offers low friction and starting torque, good corrosion and wear protection and good oxidation stability while providing emergency lubricating properties, ensuring long relubrication intervals and contributing to reduced operating costs.

Application

The special product properties of ISOFLEX TEL 3000 ALTEMP facilitate its use in precision engineering and the textile industry.

Typical applications of ISOFLEX TEL 3000 ALTEMP include:

- Rolling and plain bearings used in precision engineering at normal and low temperatures
- Zig-zag winding guides in spool and twisting machines

- Yarn guide rails in spool and twisting machines

Application notes

ISOFLEX TEL 3000 ALTEMP can be applied to the clean lubrication point by brush, spatula or similar application equipment. The friction point can be cleaned with commercially available cleaning agents if necessary.

The pumpability in central lubrication systems of ISOFLEX TEL 3000 ALTEMP should be checked with the system manufacturer before application.

Owing to the many different compositions of elastomers and plastics, we recommend checking their compatibility prior to series application.

If you wish to optimise the service life of your equipment or have any other questions regarding your application, our experts will be pleased to help you. Just contact us.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	ISOFLEX TEL/3000 ALTEMP
Can 1 kg	+
Bucket 25 kg	+



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Product data	ISOFLEX TEL/3000 ALTEMP
Article number	005060
Lower service temperature	-45 °C / -49 °F
Upper service temperature	60 °C / 140 °F
Texture	homogeneous
Texture	short-fibred
Colour space	beige
Density at 20 °C	approx. 0.95 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	280 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	310 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 19 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 4.5 mm ² /s
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	2 500 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, upper limit value	4 500 mPas
Copper corrosion, DIN 51811, (lubricating grease), 24h/60 °C	1 - 60 corrosion degree
Drop point, DIN ISO 2176, IP 396	approx. 140 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

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